ABSTRACT

The present invention relates to a scheduler, also referred to as a service discipline, for a system 5 comprising a plurality of nodes sharing a plurality of resources such as wavelengths. The scheduler 2 of the invention schedules the transmission of data from a plurality of queues B_1 , B_2 , and B_3 from a source node 1 to a plurality of destination nodes N_1 , N_2 , and N_3 via a plurality of outlet ports P1, P2, P3, and P4 from said 10 source node 1, each of said outlet ports P1, P2, P3, and P4 being associated with a resource OR_1 , OR_2 , OR_3 , and OR_4 , the data being transmitted via said resource to a destination node N_1 , N_2 , and N_3 , each of said nodes 15 receiving data from all or some of said plurality of resources OR_1 , OR_2 , OR_3 , and OR_4 . The scheduler device 2 is characterized in that it comprises a plurality of servers S_1 , S_2 , S_3 , and S_4 , each of said servers being associated with a respective one of said resources of said plurality of resources OR_1 , OR_2 , OR_3 , and OR_4 , and 20 each of said servers comprising scheduler means, said scheduler means being independent for each of said servers.